

## ASSISTANTS

DEVELOPED BY RONALD KASHDEN

*The Programmer's Assistants™ is a series of six developer utilities that are designed to aid software developers in writing and testing programs.*

**A sampling of its Features:**

- ▶ Probe into system and window variables, and have the results displayed in plain English
- ▶ Analyze the event queue
- ▶ Perform complex operations on numbers using Binary, Hexadecimal or any combination of numerical systems
- ▶ Receive accurate and extremely detailed beta test reports
- ▶ Calculate timings for a given set of 680X0 instructions
- ▶ Manage projects containing multiple documents

**The Six Utilities are:**

**1. Bean Counter™**

Counts the number of 680X0 cycles it takes to execute a given set of instructions—very useful when optimizing sections of code and saves valuable time versus counting by hand. The Bean Counter also lets you edit the given set of instructions interactively so “what if” changes can be made easily.

**2. The Detective™**

Delve deep into the Macintosh with the first easy way to analyze system or window variables—by choosing them from a list. The Detective shows the value of the variable in the proper format (strings are strings, integers appear as Decimal numbers).

**3. The Witness™**

When testing a program, it is no longer necessary to rely on inaccurate or incomplete information about what led to a program crash. The Witness logs every keystroke, mouse-click and event and reports exactly what happened. Filter unwanted events and do time and memory stamps for better analysis. The Witness produces a text file that can be read by any text editor.

#### 4. The Bystander™

Displays events and memory status in real time to the screen. Filter unwanted events for quick analysis. The Bystander also has the ability to wait for an event and then display subsequent events.

#### 5. The Professor™

Perform complex logical and mathematical functions on integers with the click of a mouse. The Professor contains 23 different functions, and displays numbers in Binary, Octal, Decimal, or Hexadecimal formats in any combination. The Professor also calculates the masks needed for logical operations.

#### 6. Continuity™

Changes the 'vers' resources in all files of your project simultaneously without recompiling. Useful for managing large projects.

#### Features:

- ▶ Works with any environment
- ▶ Intuitive enough for the beginner
- ▶ Powerful enough for the professional
- ▶ The Assistants are Desk Accessories so they are always available

#### (Features Continued)

- ▶ A manual that goes far beyond describing the Assistants—it teaches you how to program the Macintosh
- ▶ Count cycles of individual or groups of instructions
- ▶ Quickly optimize sections of code
- ▶ Record user's actions to find out what really happened
- ▶ Perform complex functions on numbers using Binary, Octal, Decimal & Hexadecimal formats in any combination
- ▶ Perform logical operations on numbers
- ▶ Keep version numbers of all projects up-to-date
- ▶ Display descriptions of variables
- ▶ View system globals in "human understandable" format
- ▶ View information of the front window
- ▶ See the events as they are processed by your application
- ▶ Learn assembly language
- ▶ All Assistants include Online Documentation
- ▶ Save hundreds of man-hours of coding and debugging

#### System Requirements:

- ▶ Any Macintosh family computer
- ▶ 1 Megabyte RAM memory
- ▶ Two 800K disk drives or One 800K drive plus Hard Disk required
- ▶ System 6.0.2 or higher (System 7.0 compatible)
- ▶ AppleShare (network) and MultiFinder compatible
- ▶ Any development environment/language
- ▶ Not copy-protected

**Suggested retail price \$99.95.**

**Available now from your dealer or directly from Aladdin Systems.**



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